

Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



Gas Generation Test System for CH-TRU Waste Drums

Problem

INEEL'S Transuranic Waste project needed to measure the release of flammable gases from contact-handled transuranic (CH-TRU) waste drums that do not meet TRUPACT II safety requirements.

Baseline Technology

INEEL had no method to measure the release of flammable gases from waste drums.

Innovative Technology

The Gas Generation Test System is comprised of containment canisters, a mobile gas analysis cart, and an automated data management system that allows direct reporting of flammable gas generation rates for each drum.

Comparison

This system allows direct measurement of flammable gas generation rates.

Benefits

This system enables the project to increase the number of CH-TRU waste drums available to meet a legally enforceable milestone to ship 3,100 cubic meters by December 31, 2002.